

"Specializing in Pressurized & Lined Pipe Inspection"

"GOOD DECISIONS START WITH GOOD INFORMATION"™

Service Solutions	Tool & Deployment Descriptions	CI	DI	Steel	AC	Plastic	PCCP	BWP	RCCP	Pipe Diameter	Pipeline Applications	Expected Information from Analysis	Line Preparation	Max. Pressure (psi)
Advanced NDT : Internal / In Service Remote Field Eddy Current Testing Technology	Fully autonomous, multi-channel, high resolution, free-swimming or tethered/winch tools using electromagnetic technology (Tool Models: HydraSnake, SeeSnake, Smaller Chimera)	✓	✓	✓			✓	✓	✓	2"-36"	Water, Wastewater, Raw water, Slurry, Sludge, Hydrocarbons & Multiphase, Industrial Water	High resolution, through-transmission cross sectional pipe wall thickness measurements, detection of internal and external areas of wall loss, graphitic corrosion, cracks or local stress concentrators in metal pipes. Identification of potential critical failure locations, extent of damage (depth and length) looking at both sides (ID and OD) of the pipe for accurate integrity assessment. Includes wire break measurements cylinder corrosion and loss of preload for concrete pipes.	Cleaning to remove loose tubercules and debris Ability to launch & retrieve tool into pipeline. Run gauge pig to assess for restrictions	300-500 pending Tool
Advanced NDT: Internal / Out of Service Remote Field Eddy Current Testing Technology	Fully autonomous, multi-channel, high resolution, tethered/winch tools using electromagnetic technology (Tool Models: Larger Chimera, EMIT, RAFT)	✓	✓	✓			✓	✓	✓	36"- 84"	Water, Wastewater, Raw water, Industrial Water	High resolution, through-transmission cross sectional pipe wall thickness measurements, detection of internal and external areas of wall loss, graphitic corrosion, cracks or local stress concentrators in metal pipes. Identification of potential critical failure locations, extent of damage (depth and length) looking at both sides (ID and OD) of the pipe for accurate integrity assessment. Includes wire break measurements cylinder corrosion and loss of preload for concrete pipes.	Cleaning to remove loose tubercules and debris Access to Pipeline through maintenance holes or other. Run gauge pig to assess for restrictions	N/A
Intermediate NDT : Internal or External / In or Out of Service Handheld Pitch Catch/Low-Frequency Eddy Current & Ultrasonic Technologies	Flexible, multi-channel, multi frequency electromagnetic tools. Internal and Corrosion under insulation (CUI) version also available. (Tool Types: External, Internal & CUI Bracelet Probes)	✓	✓	✓						6" +	Water, Wastewater, Raw water, Slurry, Sludge, Hydrocarbons & Multiphase, Industrial Water	Localized/Spot inspection for trends in wall thickness reductions, individual pits, graphitic corrosion and erosion. Identification of potential critical failure locations, extent of damage (depth and length) looking at both sides (ID and OD) of the pipe for accurate integrity assessment.	Clean pipe of all loose coatings for external Version of Tools. Drain and clean line for internal Version of Tool	N/A
Standard NDT: Internal / Out of Service Near Field Eddy Current Testing Technology	Specialty, high sensitivity tool for wire break detection, tethered/winch staffed cart, self propelled tools using electromagnetic near field technology (Tool Type: Out of Service NFT)						✓	✓		36"-120"	Water, Wastewater, Raw water, Industrial Water	Accurately identify and quantify 5 or more adjacent broken wires, bars in PCCP, BWP, RCCP. Broken wires or bars are a leading indicator for pipeline integrity issues and each vintage of pipe would have a # of broken wires ratio to operating pressure limit before failure is likely to happen	Drain and visually inspect line for chipped liner and other defects that could interfere with Tool run	N/A
Visual NDT: Internal /Out of Service CCTV, Laser Profile and LIDAR Tool Technology	Tethered/winch and self propelled Robotic system for high-definition CCTV, Laser Profiling or LIDAR imaging of pipelines. (Tool Types: Crawler mounted, skid mounted, Standard or Advanced NDT Tool mounted)	✓	✓	✓	✓	✓	✓	✓	✓	6"-60"	Water, Wastewater, Raw water, O&G and other pipelines.	Visual feature, profile & deformation detection in internal body and at joints that could be leading indicators of potential pipeline integrity issues for the pipeline as a whole. Can be a stand alone service or combined with Advanced NDT (EMIT, RAFT) and Standard NDT (NFT) Inspection Services.	Drain & Clean line for profiler. CCTV can work under water if needed.	None except for CCTV with 10 psi max)
Pre-Screening NDT: Internal / In Service Multi-Sensor Acoustic Sphere Technology	Internal, free-swimming, adjustable buoyancy acoustic sphere (Tool Model: Navigator)	✓	✓	✓	✓	✓	✓	✓	✓	6"-78"	Wastewater, Raw & Fire water, and any other water where skin contact certified material will suffice	Identifies leak & gas pocket locations with high-sensitivity acoustic & accelerometer sensors. Identifies magnetic feature in non metallic pipelines. Profiles pressure gradient information to provide elevation surveys and detect deposits restricting flow. Majority of screening information used to identify leading indicators for potential integrity issues. Many times screening assessments are followed up with standard, intermediate or advanced NDT services for more accurate & detailed analysis of pipeline integrity issues	4" ARV or Tap, in Service. Check valve if off-line	125